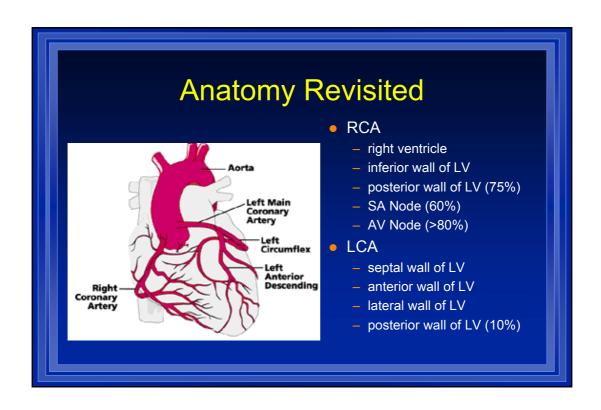
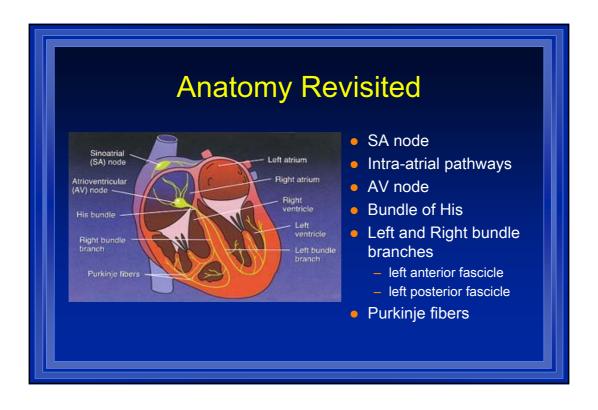
### Essentials of 12 Lead ECG Interpretation

### **Topics**

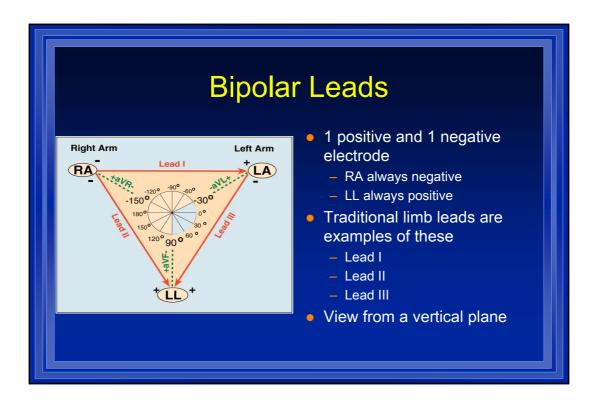
- Anatomy Revisited
- The 12 Lead ECG Device
- The 12 Lead ECG Format
- Waveform Components
- Lead Views

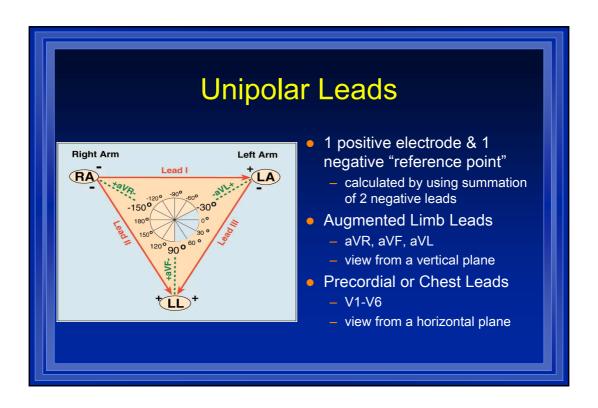


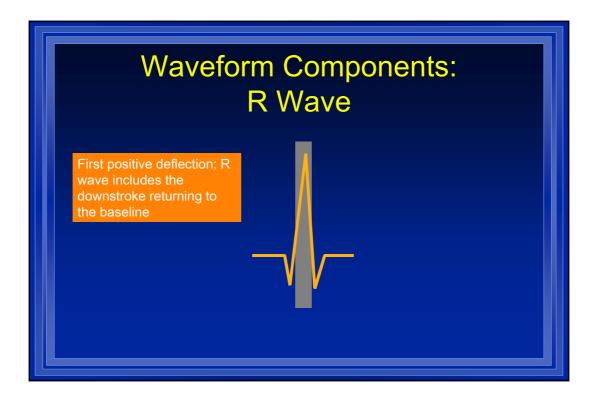


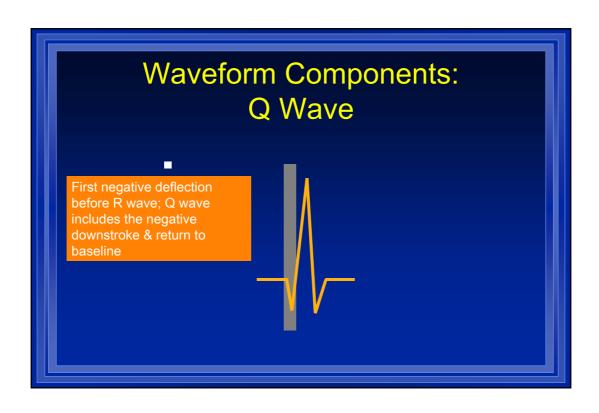
### The 12 Lead ECG Device

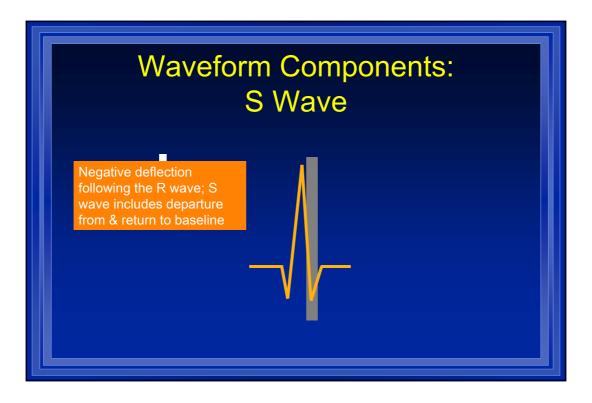
- Device serves as a voltmeter
  - measures the flow of electricity
- Unipolar vs Bipolar Leads







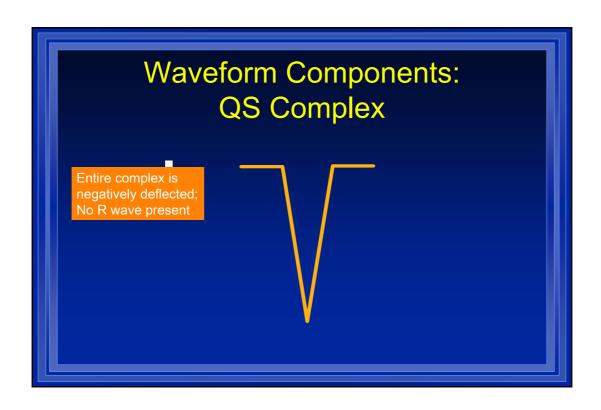


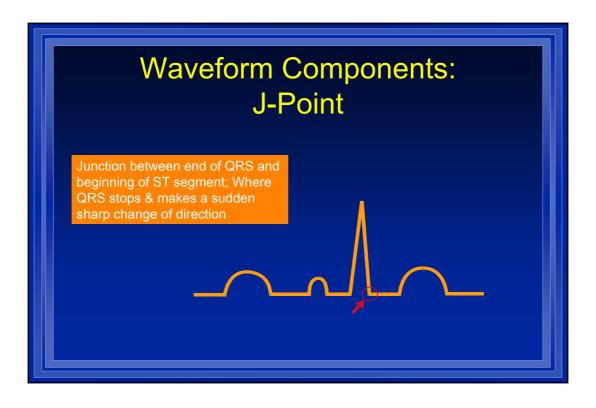


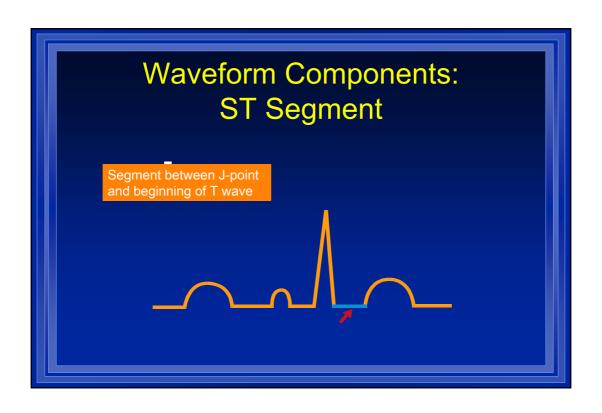
### Waveform Components: QRS

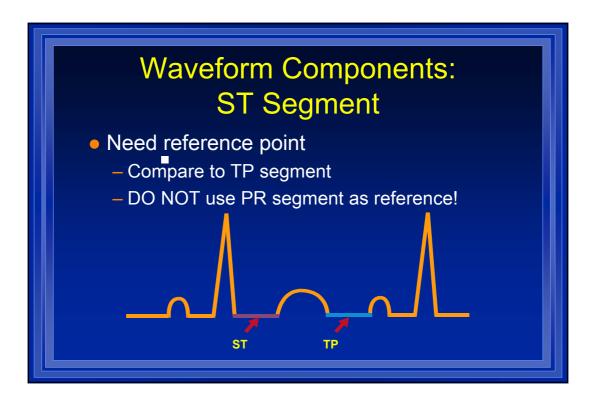
- Q waves
  - Can occur normally in several leads
    - Normal Q waves called physiologic
  - Physiologic Q waves
    - < .04 sec (40ms)</p>
  - Pathologic Q
    - ≥.04 sec (40 ms)

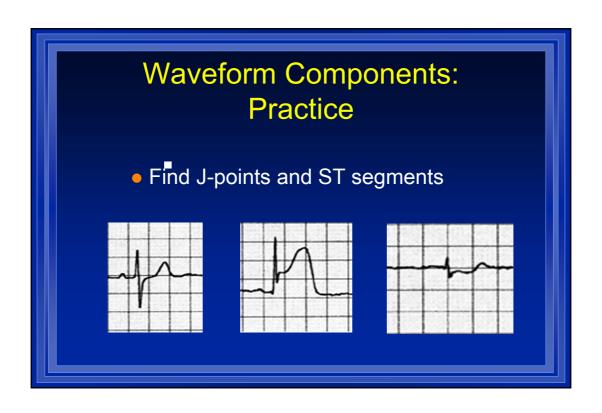
# Waveform Components: QRS Q wave Measure width Pathologic if greater than or equal to 0.04 seconds (1 small box)

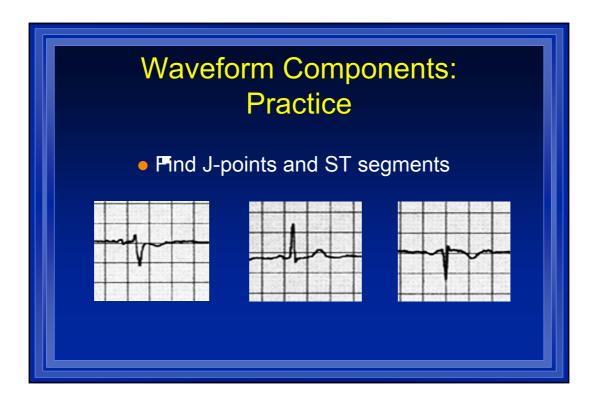




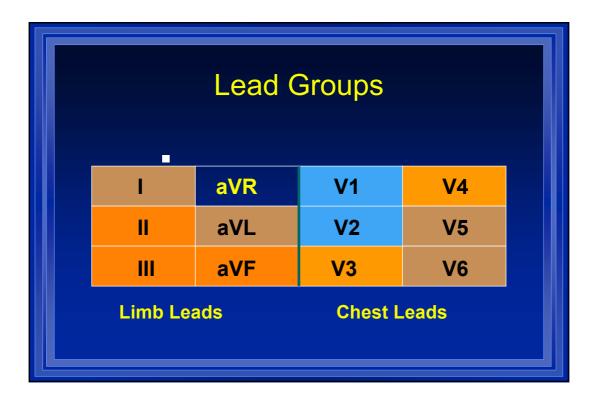


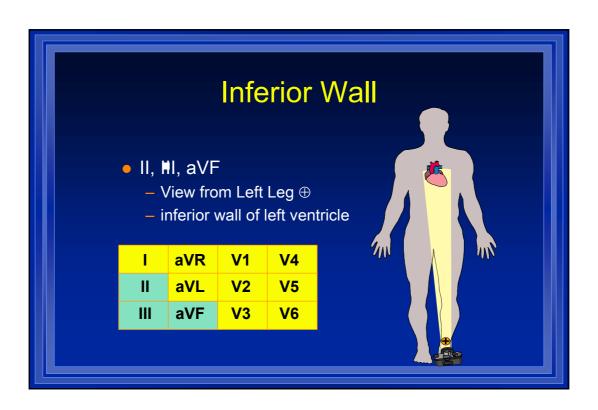


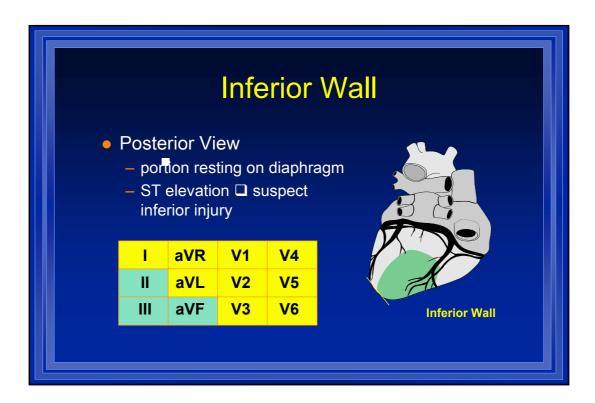


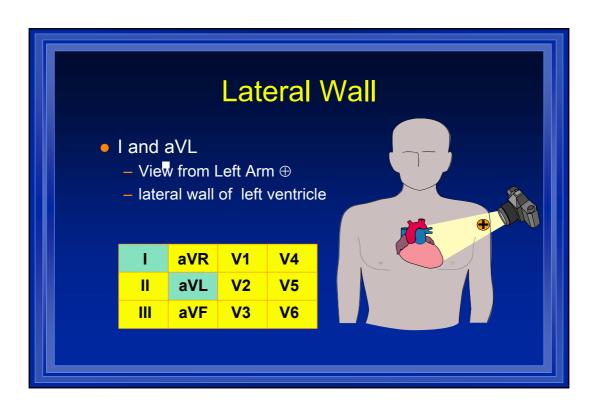


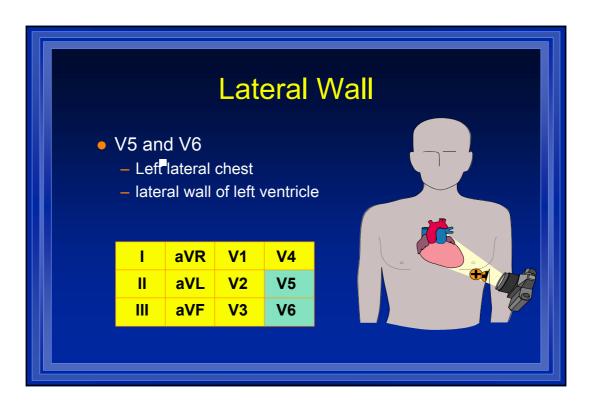


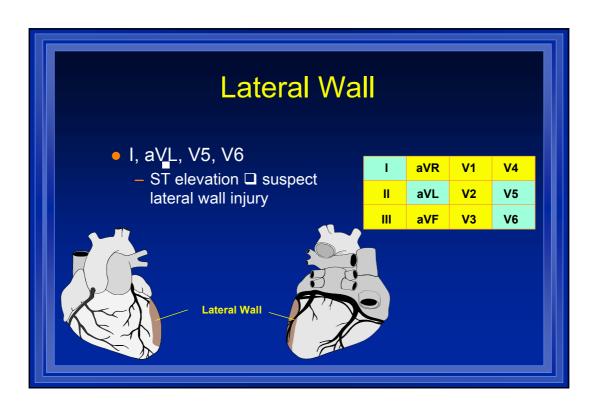


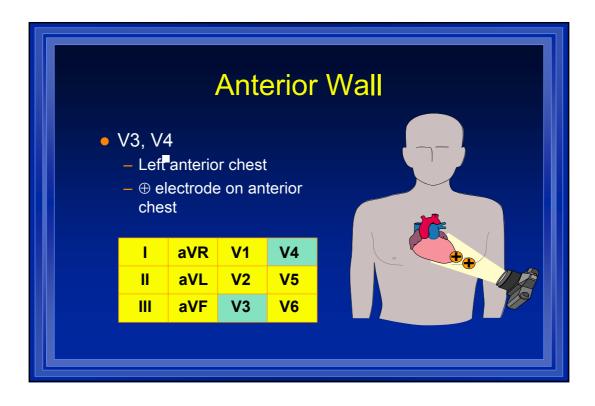


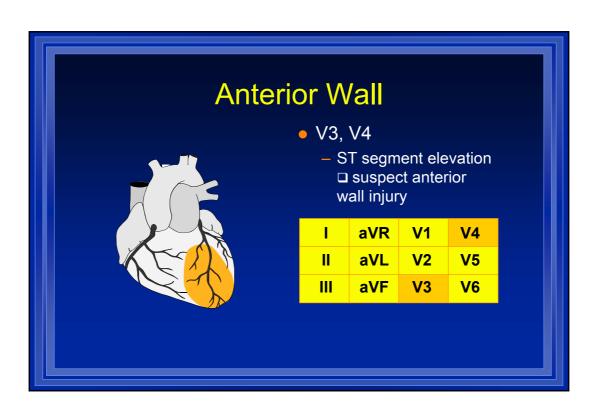


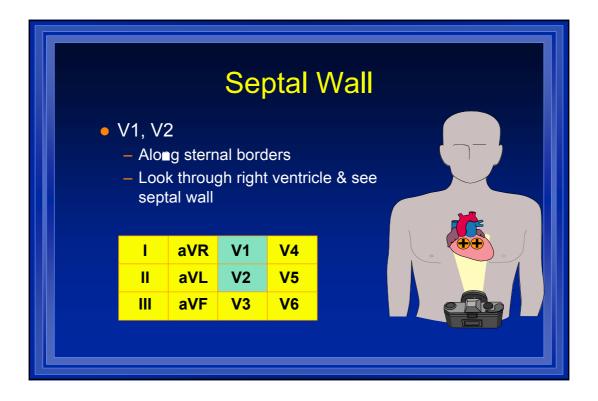


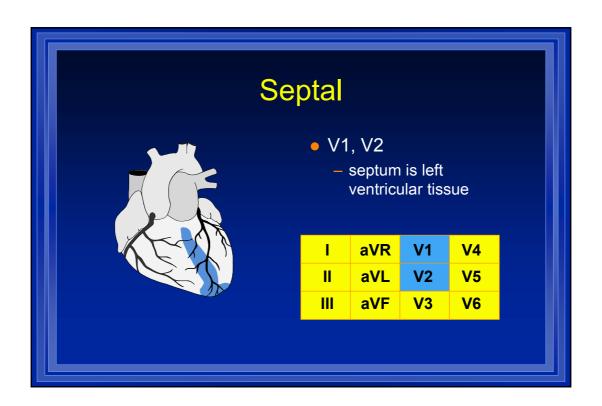


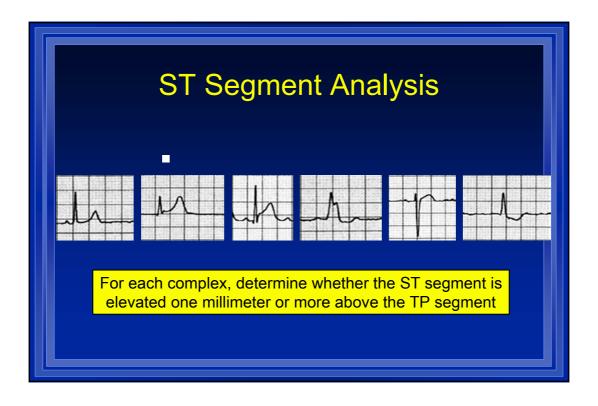












# 12-Lead ECG AMI recognition Two things to know What to look for Where you are looking

## AMI Recognition What to look for ST segment elevation One millimeter or more (one small box) Present in two anatomically contiguous leads